

may be operated by an employer, an agent or representative of an employer, or a third party (e.g., a participant in a clinical trial).

[0015] In one or more embodiments of the invention, the service interface (120) includes functionality to interface with clients (110) and communicate with one or more servers. In one or more embodiments of the invention, the service interface (120) may be implemented as a web server configured to serve web pages to the client (110) and to receive input from the client (110) via the client's web browser and/or a standalone application. In one or more embodiments of the invention, if the client (110) is executing a web browser to interface with the service interface (120), then the service interface (120) may include the web pages to send to the client (110). Upon receipt of input from the client (110), the service interface (120) may be configured to extract and, if desired, modify the input prior to sending the input to a server. Similarly, upon receipt of data from a server, the service interface (120) may be configured to perform the desired formatting of such data prior to sending the formatted data to the client (110). In one or more embodiments of the invention, the service interface (120) may interact with multiple clients (110) simultaneously. The service interface (120) may include an application programming interface ("API") and/or any number of other components used for communicating with entities outside of the computing system (100). The API may include any number of specifications for making requests from and/or providing data to the computing system (100).

[0016] In one or more embodiments of the invention, the first server (130) and/or the second server (140) may include one or more computer processor(s) (132), associated memory (134) (e.g., random access memory (RAM), cache memory, flash memory, etc.), one or more storage devices (136) (e.g., hard disk, optical drive such as a compact disk (CD) drive or digital versatile disk (DVD) drive, flash memory stick, etc.), and a cognitive training application (138) (described further in the discussion of FIG. 2 below). In one or more embodiments of the invention, the processor(s) (132) may be configured to feed cognition test results into a video game that is linked to the cognitive training application (138).

[0017] In one or more embodiments of the invention, the first server (130) and/or the second server (140) may be implemented on virtually any type of computing system regardless of the platform being used. For example, a server may include one or more mobile devices (e.g., laptop computer, smart phone, personal digital assistant, tablet computer, or other mobile device), desktop computers, servers, blades in a server chassis, or any other type of computing device or devices that includes at least the minimum processing power, memory, and input and output device(s) to perform one or more embodiments of the invention.

[0018] In one or more embodiments of the invention, the computer processor(s) (132) may be an integrated circuit for processing instructions. For example, the computer processor(s) (132) may be one or more cores, or micro-cores of a processor.

[0019] In one or more embodiments of the invention, the network (150) may include functionality to communicate with the first server (130), the second server (140), and/or one or more other server(s) via a network interface connection (not shown). The network may be a local area network (LAN), wide area network (WAN) such as the Internet, mobile network, or any other type of network. In one or more

embodiments of the invention, the network (150) may be used to connect to one or more websites which offer psychological testing for obtaining human brain cognition strengths and weaknesses and/or online video games which target human brain cognition improvement and efficiency.

[0020] In one or more embodiments of the invention, the input device(s) (160) may be a touchscreen, keyboard, mouse, microphone, touchpad, electronic pen, or any other type of input device. In one or more embodiments of the invention, the input device(s) (170) may be a screen (e.g., a liquid crystal display (LCD), a plasma display, touchscreen, cathode ray tube (CRT) monitor, projector, or other display device), a printer, external storage, or any other output device. One or more of the input device(s) (170) may be the same or different from the input device(s) (160). The input device(s) (160) and input device(s) (170) may be locally or remotely (e.g., via the network) connected to the computer processor(s) (132), memory (134), and storage device(s) (136). Many different types of computing systems exist, and the aforementioned input device(s) (160) and input device(s) (170) may take other forms.

[0021] Software instructions in the form of computer readable program code to perform embodiments of the invention may be stored, in whole or in part, temporarily or permanently, on a non-transitory computer readable medium such as a CD, DVD, storage device, a diskette, a tape, flash memory, physical memory, or any other computer readable storage medium. Specifically, the software instructions may correspond to computer readable program code that when executed by a processor(s), is configured to perform embodiments of the invention. In one or more embodiments of the invention, the software instructions may be stored on such a medium in a secure location. In one or more embodiments, such software instructions may include unique algorithms to normalize the measurement of cognition and link such measurements with video games to stimulate the human brain where there is a deficit or weakness of cognition. The method executed by such software instructions is discussed further in FIGS. 3-4 below.

[0022] Further, one or more elements of the aforementioned computing system may be located at a remote location and connected to the other elements over a network. Further, embodiments of the invention may be implemented on a distributed system having a plurality of nodes, where each portion of the invention may be located on a different node within the distributed system. In one embodiment of the invention, the node corresponds to a distinct computing device. Alternatively, the node may correspond to a computer processor with associated physical memory. The node may alternatively correspond to a computer processor or micro-core of a computer processor with shared memory and/or resources.

[0023] In one or more embodiments of the invention, a cognitive training application (138) resides and executes on server A (130). The cognitive training application (138) may be connected to via the network (150). The cognitive training application (138) is an assessment tool that measures cognition across the five cognitive domains. The cognitive training application (138) is discussed in detail in FIG. 2 below.

[0024] While FIG. 1 shows a configuration of components, other configurations may be used without departing from the scope of the invention. For example, various components may be combined to create a single component. As another